

## Claims

What is claimed is:

- [c1] A method for reducing a magnitude of a rate of current change for an integrated circuit, comprising:
- determining when power consumption by the integrated circuit needs to be reduced; and
  - gradually reducing an amount of current sourced by a power supply based on the determination.
- [c2] The method of claim 1, wherein gradually reducing the amount of current comprises:
- selectively disabling a first transistor based on the determination, wherein disabling the first transistor causes a reduction in an amount of current sourced from a power supply; and
  - selectively disabling a second transistor based on the determination, wherein disabling the second transistor causes a reduction in the amount of current sourced from the power supply.
- [c3] The method of claim 2, wherein the determination is made by a micro-architectural stage, the micro-architectural stage comprising:
- selectively generating a signal to a counter stage, wherein the counter stage generates a first signal to the first transistor and a second signal to the second transistor.
- [c4] The method of claim 3, wherein the counter stage comprises at least one selected from the group consisting of a finite state machine and a counter.
- [c5] The method of claim 2, further comprising:
- selectively disabling a last transistor based on the determination, wherein

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disabling the last transistor causes a reduction in the amount of current sourced from the power supply.

- [c6] The method of claim 5, wherein the determination is made by a micro-architectural stage, the micro-architectural stage comprising:  
selectively generating a signal to a counter stage, wherein the counter stage generates a last signal to the last transistor.
- [c7] The method of claim 5, wherein the counter stage comprises at least one selected from the group consisting of a finite state machine and a counter.
- [c8] The method of claim 5, further comprising:  
selectively enabling the first, second, and last transistors when power consumption by the integrated circuit does not need to be reduced.
- [c9] The method of claim 5, wherein the first, second, and last transistor can each be one selected from the group consisting of a p-type transistor and a n-type transistor.
- [c10] A method for reducing a magnitude of a rate of current change for an integrated circuit, comprising:  
a step of determining when power consumption by the integrated circuit needs to be reduced; and  
a step of gradually reducing an amount of current sourced by a power supply based on the determination.
- [c11] The method of claim 10, wherein the step of gradually reducing the amount of current comprises:  
a step of selectively disabling a first transistor based on the step of determining, wherein disabling the first transistor causes a reduction in an amount of current sourced from a power supply; and

a step of selectively disabling a second transistor based on the step of determining, wherein disabling the second transistor causes a reduction in an amount of current sourced from a power supply.

[c12] The method of claim 11, wherein the step of determining is made by a micro-architectural stage, the micro-architectural stage comprising:

a step of selectively generating a signal to a counter stage, wherein the counter stage generates a first signal to the first transistor and a second signal to the second transistor.

[c13] The method of claim 11, further comprising:

a step of selectively disabling a last transistor based on the step of determining, wherein disabling the last transistor causes a reduction in the amount of current sourced from the power supply.

[c14] The method of claim 11, wherein the step of determining is made by a micro-architectural stage, the micro-architectural stage comprising:

a step of selectively generating a signal to a counter stage, wherein the counter stage generates a last signal to the last transistor.

[c15] The method of claim 13, further comprising:

a step of selectively enabling the first, second, and last transistors when power consumption by the integrated circuit does not need to be reduced.

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